

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS II145-6 Rev. A,
REF. TCCA STC: SH21-24
REF. EASA STC: 10077436

1.0 PURPOSE:

It has come to DART's attention that:

1. The pull handle lever, P/N 614.6202, cannot be installed as intended due to incompatibility with the current rivets used for doubler installation.
2. The instructions for removing the pin on the OEM fixed provisions prior to installing the DART removable provisions have been omitted.
3. The instructions for the placement of the Float Reservoir has been dimensioned incorrectly.
4. Fixed provisions were included on the removable provisions kit instead of the fixed provisions kit. Thus the parts list has been revised for the assemblies P/N 654.6703 and P/N 654.6704.
5. The instructions for the installation of the liferaft reservoir are unclear.
6. The locations for installing Click Bonds to secure the pull cables need to be more clearly defined.

The purpose of this DART Service Instruction is to provide the installer with instructions for correcting these deficiencies.

2.0 PROCEDURE:

2.1 LIFERAFT HANDLE DOUBLER INSTALLATION MODIFICATION

NOTE: Refer to Section 7.2 of II145-6 Rev. A.

1. Dimple the aluminum panel in the required rivet locations as shown in Figure 1 of this DSI in accordance with the Aircraft Maintenance Manual.
2. Replace rivet F/N 89, MS20470AD3-3, with countersunk rivet, DIN65399-3205BF.

2.2 INSTALLING ON EXISTING OEM PROVISIONS

NOTE: Refer to Section 2.3 of II145-6 Rev. A.

1. Remove the pressed pin, located on the OEM lower bracket, shown in Figure 2 of this DSI.
2. When installing the DART reservoir bracket, P/N 651.4010, on the OEM fixed provisions, use the alternate hardware listed in Table 4 on page 14 of II145-6 Rev. A.
3. The bushings (P/N 654.9810) internal diameter can be increased by up to 0.03" (.75 mm) to allow for proper fitment of the DART removable hardware onto the OEM fixed provisions.
4. Complete the installation of the DART brackets and reservoir per Section 2.3 of II145-6 Rev. A.

2.3 INSTALLING THE FLOAT RESERVOIR

NOTE: Refer to Section 2.2 of II145-6 Rev. A.

1. Reference Figure 3 of this DSI for the correct alignment of the Float Reservoir.
2. It is acceptable to shift the Float Reservoir aft by up to 2.90" (73.7 mm) to avoid interference with the DME antenna. If the bottle is shifted, the installer must confirm that the cable installation conforms to the NOTE on the bottom of page 50 of II145-6 Rev. A as well as the pull force requirements per Section 8.0 of II145-6 Rev. A.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 22.02.18
CERT. NO.: SH21-24
ISSUE NO.: 1

B	REVISED SECTION 2.3, ADDED SECTION 2.5 AND 2.6 BASED ON FEEDBACK FROM AIRBUS	CZ	22.02.18
A	NEW ISSUE	CZ	21.11.15
REV.	DESCRIPTION	BY	DATE
DESIGN	CZ	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	CZ		
CHECKED	JB	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9868	SHEET 1 OF 10
APPROVED	JB	TITLE	SCALE
DE APPR.	DS	INSTALL DEVIATIONS	NTS
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2.4 PARTS LIST

NOTE: Refer to Section 15.0 of II145-6 Rev. A.

1. Reference Section 5.0 of this DSI for the revised parts list of kits P/N 654.6703 and P/N 654.6704. The parts revised in the parts list are denoted by a red box.

2.5 INSTALLING THE LIFERAFT RESERVOIR

NOTE: Refer to Section 3.2 of II145-6 Rev. A.

1. It is acceptable to install the clamp assemblies (F/N 50) such that the bolts are internal to the bracket assemblies (F/N 32) to prevent interference with passenger entry. Reference Figure 4 of this DSI for optional clamp orientation.
2. Reference Figure 5 for correct alignment of the Liferaft Reservoir. It is acceptable to shift the bottle aft by 1.0" (25.4 mm) while ensuring that the valve assembly clears the existing drain. If the bottle is shifted, the installer must confirm that the cable installation conforms to the NOTE on the bottom of page 57 of II145-6 Rev. A as well as the pull force requirements per Section 10.2 of II145-6 Rev. A.
3. It is acceptable to use either two washers or one washer (F/N 54) per bolt (F/N 56) to install the multi-cable box (F/N 60) to the cable box mount assembly (F/N 33) per Figure 15 of II145-6 Rev. A.

2.6 INSTALLING THE PULL CABLES

NOTE: Refer to Section 7.0 of II145-6 Rev. A.

1. Rubber material may be used between the pull cables and Tywraps to allow for minimal cable movement and reduce chafing on the pull cables.
2. Reference Figure 6 - Figure 11 of this DSI for acceptable Click Bond (F/N 37) locations. A tolerance of 2.0" (50 mm) is acceptable on all dimensions. Additional Click Bonds may be required to remove any slack that may cause contact with the aircraft or other surrounding features.
3. The installer must confirm that the cable installation conforms to the NOTE on the bottom of page 50/57 of II145-6 Rev. A as well as the pull force requirements per Section 8.0 and Section 10.2 of II145-6 Rev. A.

3.0 WEIGHT AND BALANCE:

There is negligible weight and balance change associated with these modifications.

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4.0 REFERENCE FIGURES

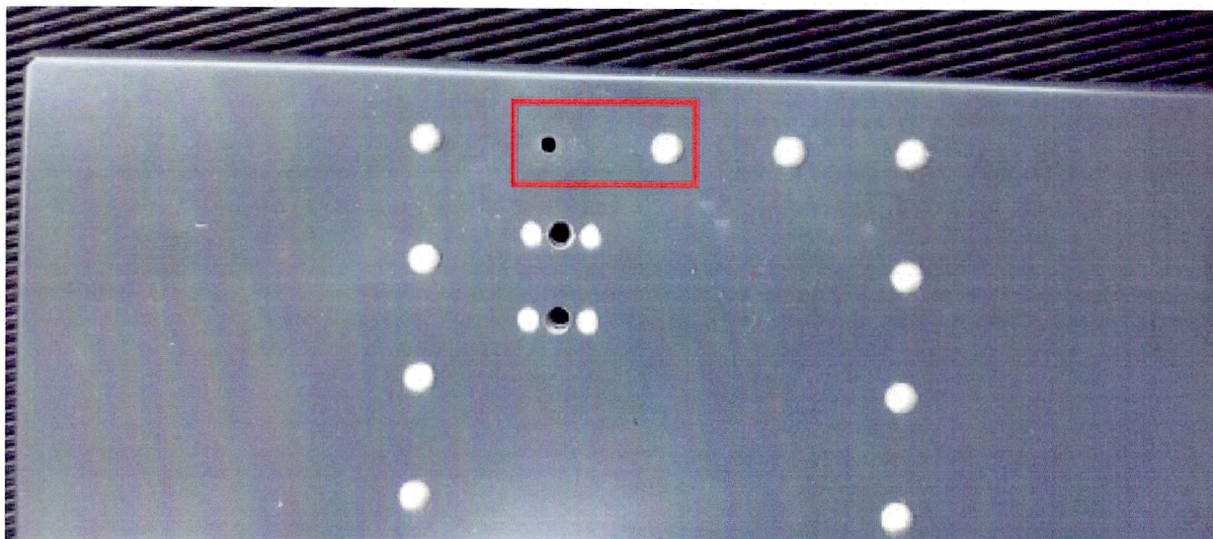


FIGURE 1: RIVET REPLACEMENT LOCATION

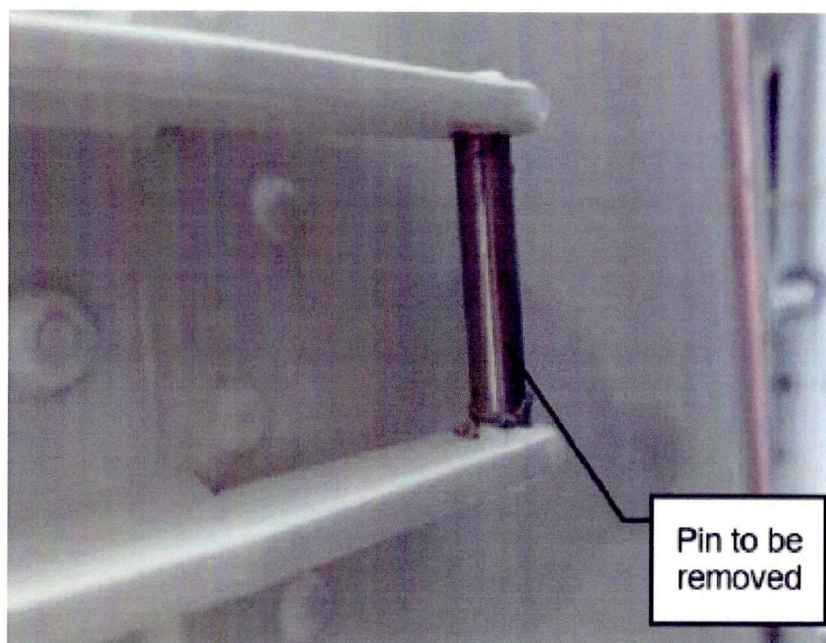


FIGURE 2: OEM LOWER BRACKET PIN

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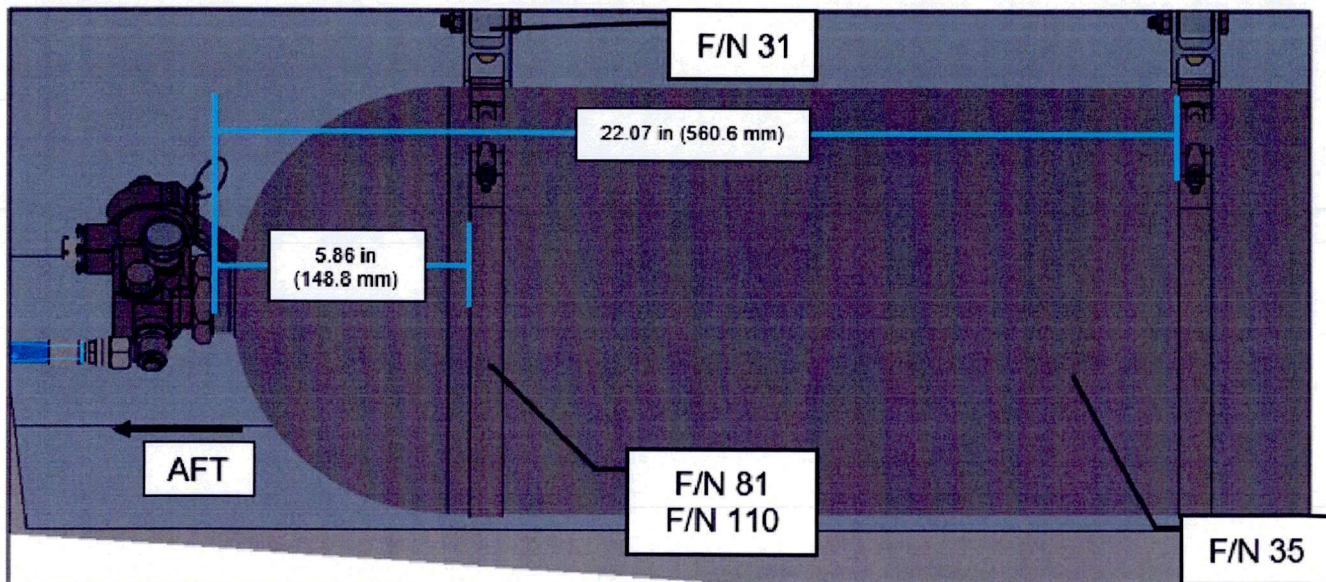


FIGURE 3: FLOAT RESERVOIR ALIGNMENT (APPROX. DIM.), RH HC VIEW

NOTE: The float reservoir may be shifted by up to 2.90" (73.7 mm) aft of the dimensions shown in this figure to avoid interference with the DME antenna

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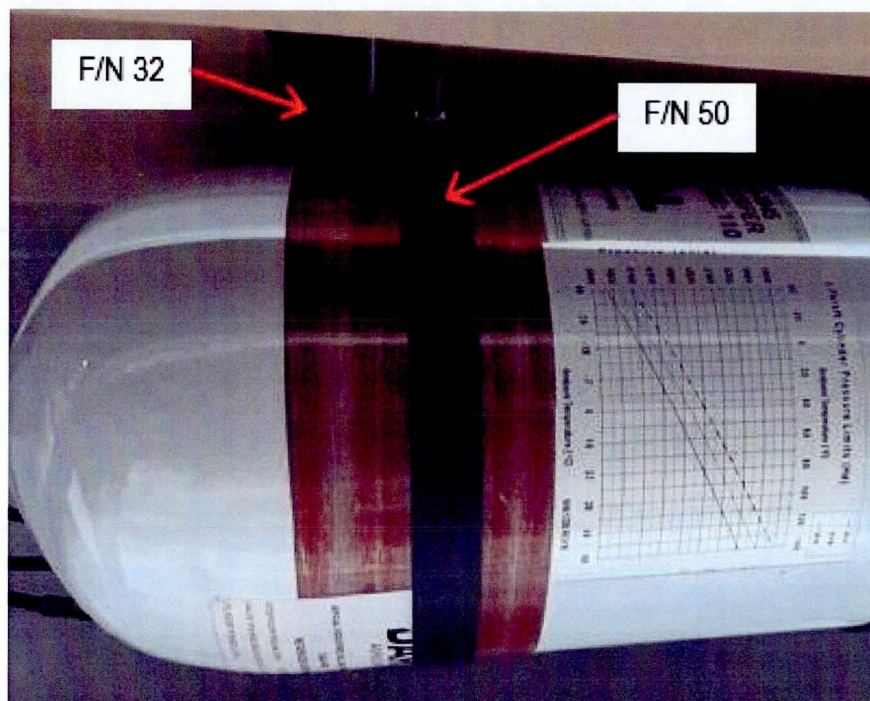


FIGURE 4: LIFERAFT RESERVOIR CLAMP ALIGNMENT

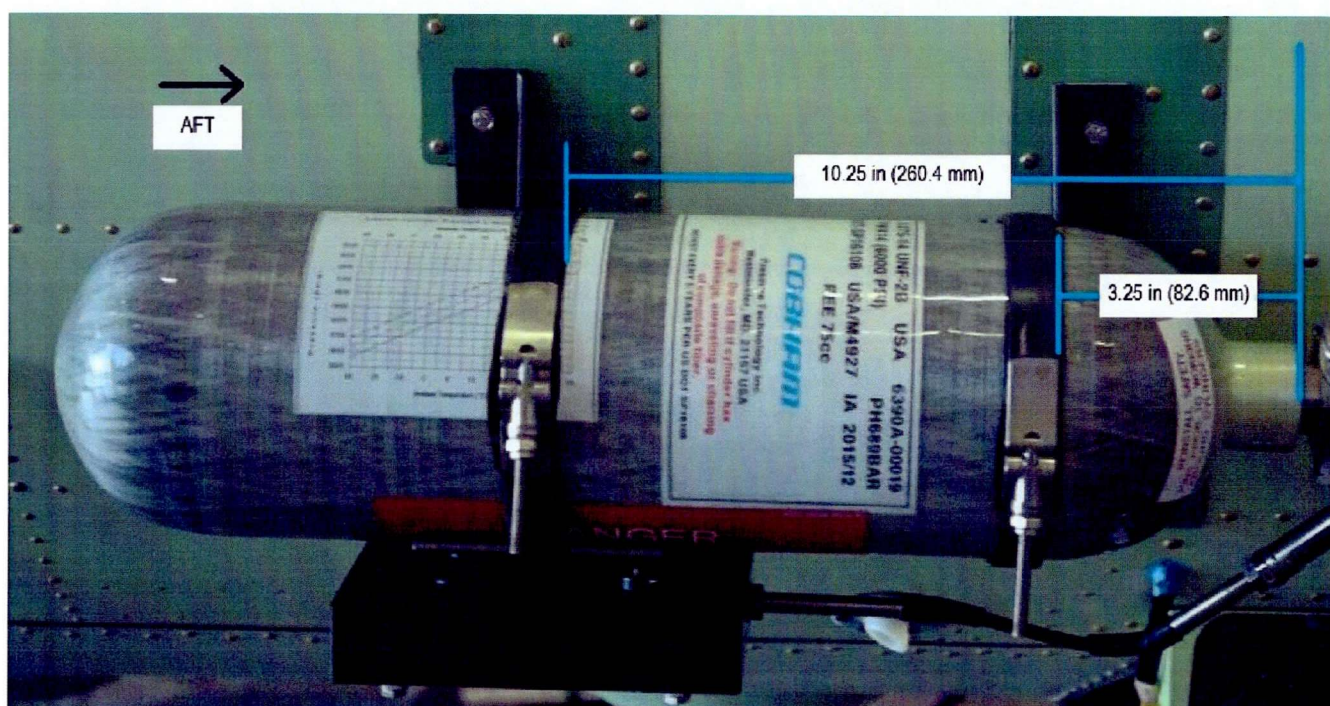


FIGURE 5: LIFERAFT RESERVOIR ALIGNMENT (APPROX. DIM.), LH HC VIEW

DESIGN	CZ	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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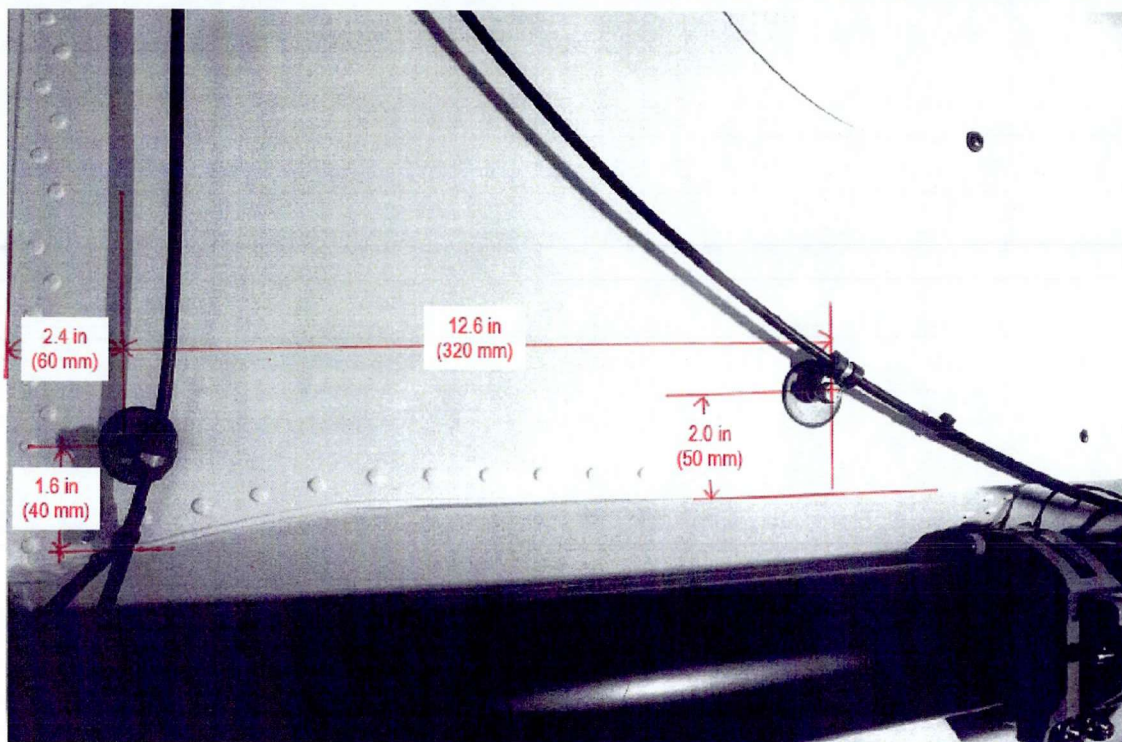


FIGURE 6: CLICK BOND LOCATION (APPROX. DIM.)

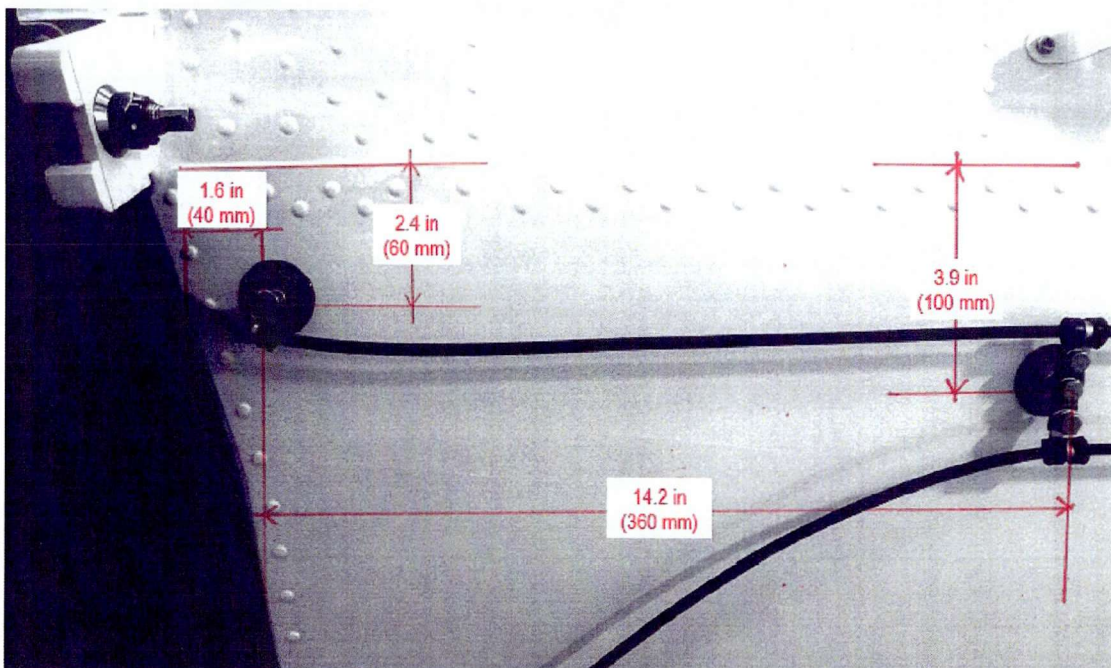


FIGURE 7: CLICK BOND LOCATION (APPROX. DIM.)

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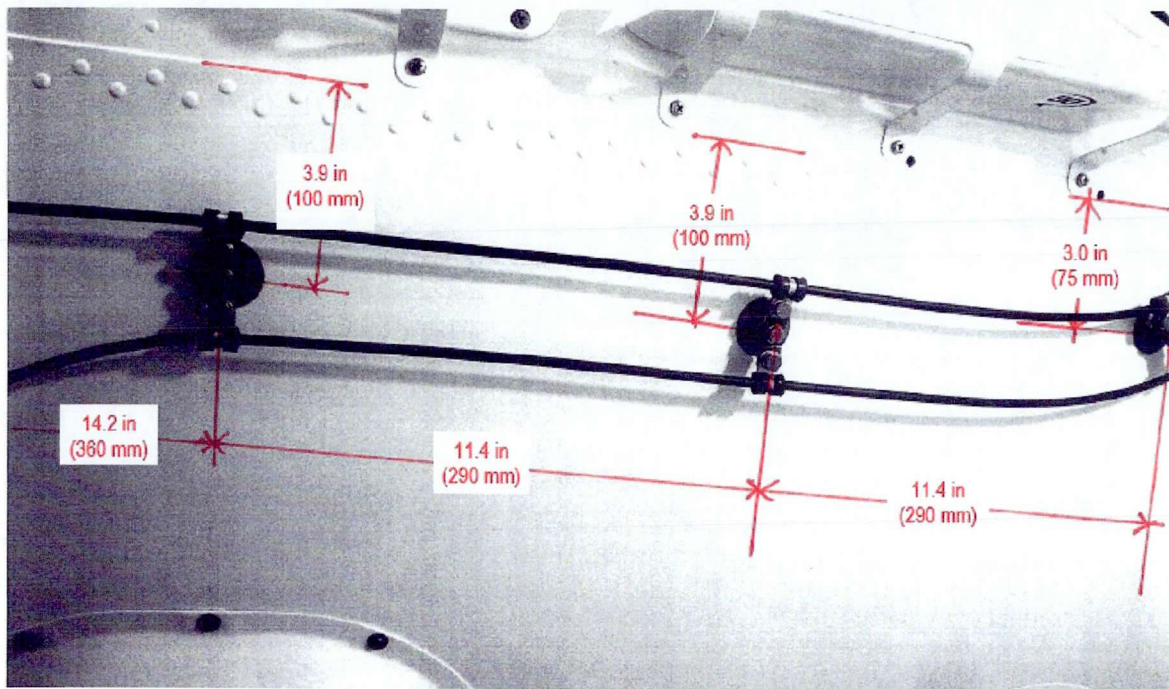


FIGURE 8: CLICK BOND LOCATION (APPROX. DIM.)

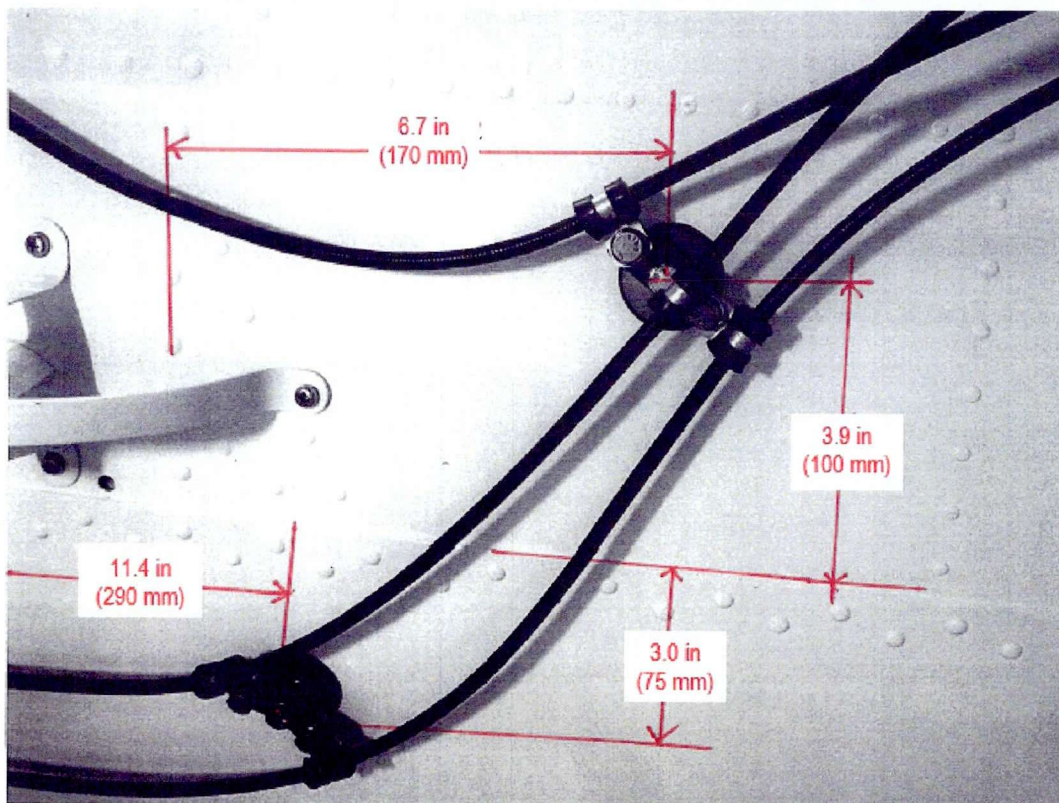


FIGURE 9: CLICK BOND LOCATION (APPROX. DIM.)

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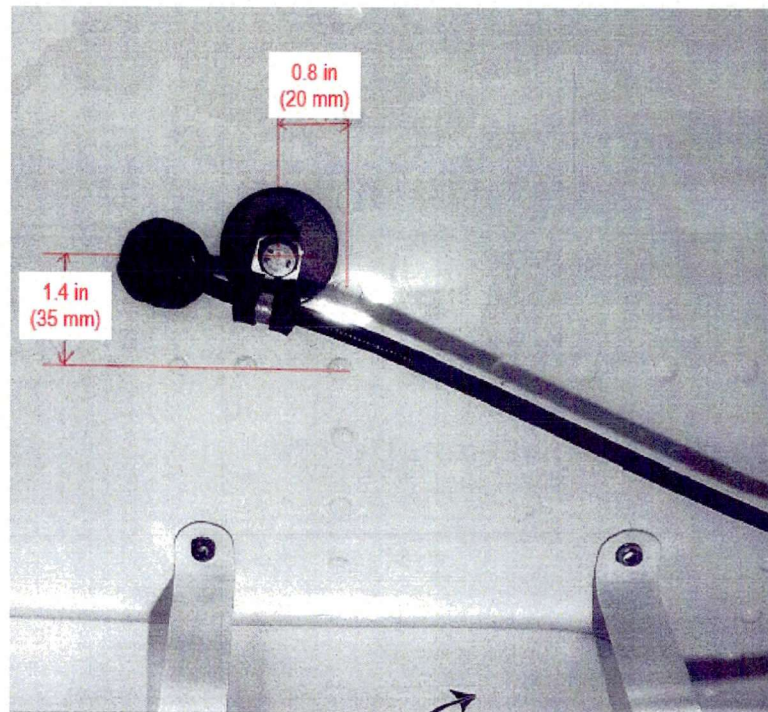


FIGURE 10: CLICK BOND LOCATION (APPROX. DIM.)

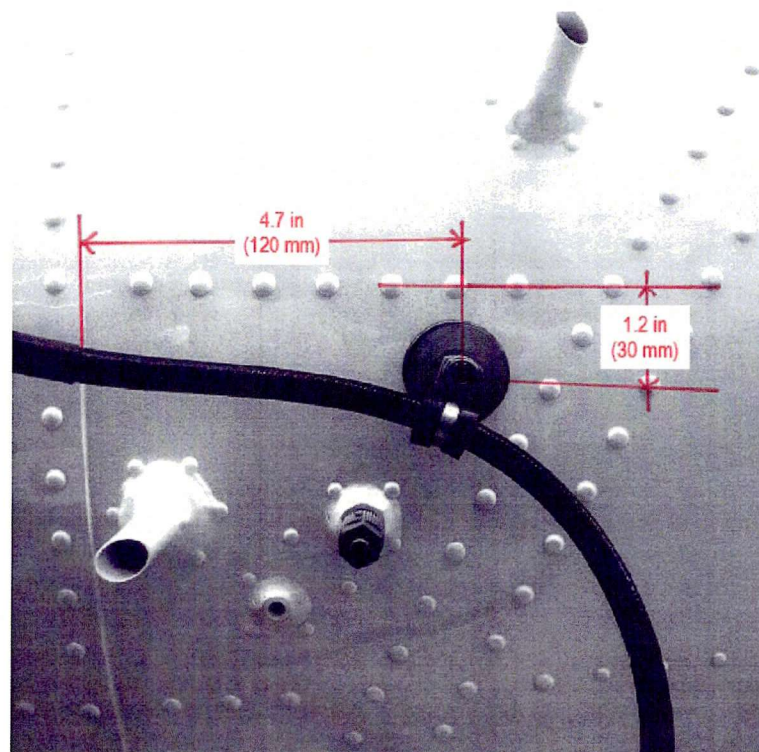


FIGURE 11: CLICK BOND LOCATION (APPROX. DIM.)

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5.0 PARTS LIST:

.6704	.6703	F/N	PART #	DESCRIPTION
	X		654.6703	EMERGENCY FLOAT SYSTEM W/ LIFERAFT FIXED PROVISIONS
X			654.6704	EMERGENCY FLOAT SYSTEM W/ LIFERAFT REMOVABLE PROVISIONS
1		1	646.5543	AFT FLOAT ASSY W/LIFERAFT L.H.
1		2	646.5544	AFT FLOAT ASSY W/LIFERAFT R.H.
1		5	646.5401	FWD FLOAT ASSY L.H.
1		6	646.5402	FWD FLOAT ASSY R.H.
1		12	602.3012	HOSE ASSY
1		13	602.3002	HOSE ASSY
1		14	602.3003	HOSE ASSY
2		15	602.3004	HOSE ASSY
2		16	602.3005	HOSE ASSY
1		19	602.3008	HOSE ASSY
1		20	602.3009	HOSE ASSY
1		21	602.3010	HOSE ASSY
2		24	646.8401	T-HANDLE CLAMP ASSY
1		25	646.5901	PULL CABLE ASSY
1		26	646.5902	PULL CABLE ASSY
1		27	646.5903	PULL CABLE ASSY
1		28	646.5904	PULL CABLE ASSY
2		31	651.4004	H145 REMOVABLE ASSY
2		32	646.6003	BRACKET ASSY
1		33	646.4302	CABLE BOX MOUNT ASSY
1		34	646.7504	LIFERAFT RESERVOIR ASSY
1		35	646.7402	FLOAT RESERVOIR ASSY
	1	36	646.5910	PULL CABLE ASSY
13		37	601.2956	CLICK BOND
2		38	601.2368	ELBOW
1		39	601.2370	TEE -4
3		40	601.1516	UNION TEE
9		41	600.0685	LOOP CLAMP
13		42	601.0776	LOOP CLAMP
12		43	601.1592	LOOP CLAMP
22		44	601.0797	LOOP CLAMP
	1	45	601.0730	LOOP CLAMP
	1	46	614.2302	HANDLE ASSY
	1	47	634.0501	HANDLE SHIM
	1	48	614.6202	PULL HANDLE LEVER
1		49	601.4035	RECEPTACLE COVER
2		50	648.5201	T-BOLT LOOP CLAMP
20 in		51	601.1806	HEAT SHRINK TUBING
14		52	614.8010	TAB
41		53	601.0789	NUT
98		54	601.0774	WASHER
38		55	601.0757	BOLT
10		56	600.0540	BOLT

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.6704	.6703	F/N	PART #	DESCRIPTION
	X		654.6703	EMERGENCY FLOAT SYSTEM W/ LIFERAFT FIXED PROVISIONS
X			654.6704	EMERGENCY FLOAT SYSTEM W/ LIFERAFT REMOVABLE PROVISIONS
	1	57	646.5907	PULL CABLE ASSY
16		58	644.6210	SLEEVE RETAINER
8		59	644.6111	SLEEVE
1		60	624.9001	MULTI CABLE BOX
12		62	601.4394	BOLT
24		63	601.1882	WASHER
12		64	601.2246	NUT
	2	66	651.4006	H145 FIXED ASSY
2		68	646.7810	DOUBLER
2		70	600.0926	EPOXY
66		71	601.1119	RIVET
4		72	601.1878	TYWRAP
10		73	600.0644	CONNECT RING
1		79	600.0927	MASTINOX
1		80	601.1150	SEMKIT PRO SEAL
1		81	600.0038	BUNA-N-RUBBER
8ft		82	601.1876	SAFETY WIRE
3		83	601.1247	GROMMET
1		85	645.0210	DOUBLER
	REF	86	601.3473	RIVET
2		87	601.1617	NUTPLATE
6		88	601.0720	BOLT
16		89	601.1774	RIVET
32		90	601.1065	RIVET
10 ft		92	601.1347	SPIRAL WRAP
4		93	601.1625	SPACER
1		97	634.9720	FLOAT PLACARD
1		98	634.9706	LIFERAFT PLACARD
4		99	634.9703	EMERGENCY PLACARD
1		100	601.2045	RTV
4		101	624.2202	AFT SADDLE BRACKET
2ft		102	601.1919	COPPER WIRE
8		103	601.1900	NUTPLATE
8		104	601.2239	RIVET
2		105	600.0897	LIFERAFT LABEL
4		106	601.0718	COTTER PIN
4		107	600.0786	BOLT
2		110	646.8101	CLAMP ASSY
3ft		118	601.1641	SPIRAL WRAP
8		128	654.9810	BUSHING

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